

What is claimed is:

1. A thin speaker, comprising:
  - a rigid enclosure having an opening that is smaller in size than the dimensions of said rigid enclosure;
  - 5 a semi-rigid lens placed in said opening; and
  - a magnetic driver inside of said rigid enclosure and attached to said semi-rigid lens wherein said magnetic driver vibrates said semi-rigid lens to create sound.
- 10 2. The speaker of claim 1, wherein said magnetic driver further comprises a magnetic coil and a diaphragm attached to said semi-rigid lens.
3. The speaker of claim 1, wherein said semi-rigid lens is constructed from a material comprised from the group consisting of plastic, glass, Lexan,  
15 and Plexiglas.
4. The speaker of claim 1, wherein said semi-rigid lens is transparent.
5. The speaker of claim 1, wherein said rigid enclosure contains a LCD  
20 module that is viewable through said semi-rigid lens.
6. The speaker of claim 1, wherein said semi-rigid lens is attached to said rigid enclosure.

7. The speaker of claim 1, wherein said semi-rigid lens is attached to a thin semi-rigid surface that is attached to the outside of said rigid enclosure.

8. The speaker of claim 7, wherein said thin semi-rigid surface is larger in size than said semi-rigid lens.

9. The speaker of claim 1, further comprising a mounting bracket for attaching said magnetic driver to said semi-rigid lens.

10. The speaker of claim 9, wherein said mounting bracket is rectangular in shape and has a left end and a right end and said magnetic driver is attached in between said left end and said right end.

11. The speaker of claim 10, wherein said mounting bracket is attached to said semi-rigid lens for increased vibration of said semi-rigid lens for increased sound volume.

12. The speaker of claim 9, wherein said mounting bracket is attached to said semi-rigid lens.

13. The speaker of claim 1, wherein said rigid enclosure is environmentally-sealed.

14. A kiosk that interacts with a user, comprising:  
a housing;

a control system in said housing;

an input device coupled to said control system;

a display coupled to said control system, comprising:

an rigid enclosure having an opening that is smaller in size than

5 the dimensions of said rigid enclosure;

a semi-rigid lens placed in said opening; and

a magnetic driver inside of said rigid enclosure and attached to  
said semi-rigid lens wherein said magnetic driver vibrates said semi-  
rigid lens to create sound;

10 said control system adapted receiver the user's input from said input  
device and to control information to said display in response thereto.

15 15. The kiosk of claim 14, wherein said input device is comprised from the  
group consisting of a keypad, soft keys, touch screen keys, wireless  
communication device, magnetic-stripe card, optical-coded card, and voice  
recognition module.

16. The kiosk of claim 14, wherein said magnetic driver further comprises a  
magnetic coil and a diaphragm attached to said semi-rigid lens.

20 17. The kiosk of claim 14, wherein said semi-rigid lens is constructed from  
a material comprised from the group consisting of plastic, glass, Lexan, and  
Plexiglas.

25 18. The kiosk of claim 14, wherein said semi-rigid lens is transparent.

19. The kiosk of claim 14, wherein said rigid enclosure contains a LCD module that is viewable through said semi-rigid lens.

5 20. The kiosk of claim 14, wherein said semi-rigid lens is attached to said rigid enclosure.

21. The kiosk of claim 14, wherein said semi-rigid lens is attached to a thin semi-rigid surface that is attached to the outside of said rigid enclosure.

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22. The kiosk of claim 21, wherein said thin semi-rigid surface is larger in size than said semi-rigid lens.

23. The kiosk of claim 14, further comprising a mounting bracket for  
15 attaching said magnetic driver to said semi-rigid lens.

24. The kiosk of claim 23, wherein said mounting bracket is rectangular in shape and has a left end and a right end and said magnetic driver is attached in between said left end and said right end.

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25. The kiosk of claim 24, wherein said mounting bracket is attached to said semi-rigid lens for increased vibration of said semi-rigid lens for increased sound volume.

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26. The kiosk of claim 23, wherein said mounting bracket is attached to said semi-rigid lens.

27. The speaker of claim 14, wherein said rigid enclosure is environmentally-sealed.

28. A fuel dispenser for dispensing fuel into a vehicle, comprising:

a housing;

a hose attached to said housing;

10 a nozzle attached to said hose;

a control system in said housing that controls the dispensing of fuel through said hose and said nozzle into the vehicle;

an input device coupled to said control system for receiving information from the user during the fueling of the vehicle;

15 a display coupled to said control system that displays information and generates sound to the customer during the fueling of the vehicle, comprising:

a rigid enclosure having an opening that is smaller in size than the dimensions of said rigid enclosure;

20 a LCD module in said enclosure and coupled to said control system;

a transparent semi-rigid lens placed in said opening and in front of said LCD module; and

25 a magnetic driver inside of said rigid enclosure and attached to said semi-rigid lens wherein said magnetic driver vibrates said semi-rigid lens to create sound;

said control system adapted receiver the user's input from said input device and to control information and sound to said display in response thereto.

- 5     29.     The fuel dispenser of claim 28, wherein said semi-rigid lens is attached to a thin membrane that is attached to the outside of said rigid enclosure.

30.     A method of producing a thin speaker for an enclosure, comprising the steps of:

- 10             cutting out an opening in a rigid enclosure;  
               placing a semi-rigid lens in said opening; and  
               attaching a magnetic driver on the de of said rigid enclosure to said semi-rigid lens wherein said magnetic driver vibrates said semi-rigid lens to create sound.

- 15     31.     The method of claim 30, wherein said attaching comprises:  
               attaching said magnetic driver to a mounting bracket and to said semi-rigid lens; and  
               attaching said magnetic driver to said semi-rigid lens.

- 20     32.     The method of claim 30, further comprising environmentally-sealing said rigid enclosure.

33.     The method of claim 30, further comprising attaching said rigid  
25     enclosure to a kiosk.

34. The method of claim 30, further comprising attaching said rigid enclosure to a fuel dispenser.

5 35. The method of claim 30, further comprising placing a LCD module on the inside of said rigid enclosure that is viewable through said semi-rigid lens.

36. The method of claim 30, further comprising:  
placing a semi-rigid surface on the outside of said rigid enclosure; and  
10 attaching said semi-rigid lens to said semi-rigid surface.

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